

ORIGINAL

21

22

23

24

25

26

BEFORE THE ARIZONA POWER PLANT AND TRANSMISSION LINE SITING COMMITTEE VED

7000 OCT -9 P 3: 41 3 IN THE MATTER OF THE APPLICATION OF ARIZONA SOLAR ONE, LLC., IN Docket No.7L:00000GG:08:0407:00139 4 DUCKET CONTROL CONFORMANCE WITH THE 5 REQUIREMENTS OF ARIZONA REVISED STATUTES §§ 40-360, et seq., FOR A Case No. 139 6 CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AUTHORIZING THE 7 CONSTRUCTION OF THE SOLANA GENERATING STATION, LOCATED IN 8 SECTION 9, TOWNSHIP 6 SOUTH, RANGE) 9 7 WEST, MARICOPA COUNTY, ARIZONA. 10 IN THE MATTER OF THE APPLICATION OF ARIZONA SOLAR ONE, LLC., IN Docket No. L-00000GG-08-0408-00140 11 CONFORMANCE WITH THE REQUIREMENTS OF ARIZONA REVISED 12 STATUTES §§ 40-360, et seq., FOR A Case No. 140 13 CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AUTHORIZING THE 14 CONSTRUCTION OF THE SOLANA GENamission TIE, WHICH ORIGINATES AT THE 15 SOLANA GENERATING STATION, LOCATED IN SECTION 9, TOWNSHIP 6 16 SOUTH, RANGE 7 WEST, MARICOPA 17 COUNTY, AND TERMINATES AT THE PANDA 230 kV SUBSTATION, LOCATED 18 IN SECTION 20, TOWNSHIP 5 SOUTH, RANGE 4 WEST, GILA BEND, ARIZONA. 19 20

NOTICE OF FILING REBUTTAL TESTIMONY ON BEHALF OF ARIZONA SOLAR ONE, LLC

Arizona Solar One, LLC ("Applicant") submits the attached rebuttal testimony. To sponsor this testimony and answer questions from the Committee or intervenors, the Applicant will present Kate Maracas, Larry Killman, Kenda Pollio, and Jessica Wilton as a panel.

1	RESPECTFULLY submitted this 9th day of October, 2008.	
2	LEWIS AND ROCA LLP	
3	4111111	
4	Thomas H. Campbell	
5	Albert H. Acken 40 N. Central Avenue	
6	Phoenix, Arizona 85007	
7	Attorneys for Arizona Solar One, LLC	
8		
9		
10	ORIGINAL and twenty-seven (27) copies of the foregoing filed this 9th day	
11	of October, 2008, with:	
12	The Arizona Corporation Commission Utilities Division – Docket Control	
13	1200 W. Washington Street	
14	Phoenix, Arizona 85007	
15	COPY of the foregoing served	
16	electronically this 9th day of October, 2008, to:	
17	John Foreman, Chairman	
18	Arizona Power Plant and Transmission Line Siting Committee Office of the Attorney General	
19	PAD/CPA	
20	1275 W. Washington Street Phoenix, Arizona 85007	
21	All Members of the Arizona Power Plant and	
22	Transmission Line Siting Committee	
23	Charles H. Hains	
24	Robin R. Mitchell Legal Division	
25	Arizona Corporation Commission 1200 W. Washington Street	
26	Phoenix, Arizona 85007	

1	Timothy M. Hogan
2	2020 E. McDowell Road Suite 153
3	Phoenix, Arizona 85004 Attorneys for Sierra Club – Grand Canyon Chapter
4	
5	Jay Moyes Jeffrey Zimmerman
6	Moyes Sellers & Sims 1850 N. Central Avenue
7	Suite 1100 Phoenix, Arizona 85004
8	Attorneys for Paloma Irrigation and Drainage District
9	
10	
11	
12	Betty J. Treffin
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	

Rebuttal Testimony

Arizona Solar One, LLC.

October 14, 2008

1. Describe the estimated tax benefits for the local school districts that will result from construction and operation of the Project.

The Applicant anticipates the tax revenues flowing to the local school districts will be approximately \$90M to \$95M over thirty years.

2. What is the status of negotiations with the Paloma Irrigation and Drainage District ("PIDD") concerning water rates?

Negotiations with PIDD are ongoing. PIDD has signed the affidavit of authority to proceed as joint property owners with the Applicant in the filing of a Maricopa County Comprehensive Plan Amendment ("CPA"), which will acknowledge the Applicant's plan to develop, construct, and operate the Project.

3. Describe the existing Powerline Road alignment and right-of-way ("ROW").

Maricopa County Assessor's records show that the road alignment is held by PIDD and the width of the alignment varies from 50 to 100 feet. APS holds an eight-foot-wide ROW along the 69kV transmission line located south of Powerline Road.

1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

4. Describe the existing ROW along the Preferred Route between the Gila Bend Substation and Watermelon Road.

APS holds and maintains ROW along the north-south alignment between Gila Bend Substation and Watermelon Road. APS' 230kV transmission line is generally located in this north-south corridor, in a 100-foot-wide ROW.

5. Describe the existing right(s)-of-way for that portion of the Preferred Route along Watermelon Road.

The Watermelon Road ROW is approximately 70 feet wide. APS holds a 100-foot-wide ROW for its 230 kV line located on the south side of Watermelon Road. APS holds a ROW for its 69 kV and 12 kV lines that varies in width from 27 to 35 feet. From the west, this ROW is located on the south side of Watermelon Road to a point approximately two miles west of the APS Panda Substation, at which point the lines cross to the north side of Watermelon Road.

6. When will the Applicant begin to obtain ROW for this Project?

The Applicant will begin negotiations with landowners to acquire ROW immediately after the CECs are granted.

7. Please explain the reasons for the Applicant's requested corridor widths along the Preferred Route.

In response to the Committee's request, and based on the Committee's initial indication that it favors the Preferred Route to the alternative routes, the Applicant has further evaluated the necessary corridor widths along the Preferred Route.

The Applicant can accept a 500-foot-wide corridor centered on Powerline Road from the northeast corner of the Solana Generating Station property to APS' Gila Bend Substation. Existing utility features along Powerline Road include the following:

- APS' existing 69kV line. This line is located on the south side of the road for the full length of the corridor.
- APS' existing 12kV line. Approximately six miles of this 12kV line is located on
 the south side of the road as an underbuild on the 69kV line. Approximately three
 miles of this 12kV line is located on the north side of the road.
- Paloma Irrigation and Drainage District's canal and private irrigation ditches.
 Approximately nine miles of the western portion of the corridor contain canals and irrigation ditches adjacent to the road to service the agricultural fields along this portion of the alignment.

The Applicant can accept a 500-foot-wide corridor generally centered on APS' existing 230kV line from APS' Gila Bend Substation to Watermelon Road, unless the Committee adopts the Staff's proposed pole separation condition, in which case the Applicant needs a 1,000-foot-wide corridor.

For the majority of the Preferred Route along Watermelon Road, the Applicant can accept a narrower corridor of 1,250 feet, located south of Watermelon Road. The south side of Watermelon Road contains Town of Gila Bend water treatment ponds, APS' existing 230kV line, and Gila Bend Power Partners' certificated 500-foot-wide 500kV corridor.

The requested corridor width provides sufficient room for the proposed transmission line to be located south of the water treatment ponds and the previously-certificated corridor. On the north side of Watermelon Road, the Applicant needs a 500-foot-wide corridor that extends 1,320 feet north of Watermelon Road on the east side of the APS Panda Substation.

Granting the requested revised widths would provide the Applicant with sufficient room to work around existing and proposed infrastructure and to work with landowners to address ROW and pole placements.

8. What impacts will occur if existing lines are consolidated with the Gen-Tie?

In order to consolidate existing lines with the Gen-Tie, the Gen-Tie structures would have to be located closer together. This would result in shorter span lengths, more structures, and higher costs. Additionally, the existing 69kV is a radial line and does not have redundancy; therefore, consolidation of structures would result in construction-related outages.

9. What is the Applicant's position concerning Staff's proposed pole separation condition?

Because poles will be located farther away from existing roads and other linear features, the Staff's proposal will require the Applicant to acquire significantly more land resulting in greater costs to the Applicant and greater impacts to landowners.

	1
	2
	3
	4
	5
	6
	7
	8
	9
1	0
1	1
1	2
1	3
1	4
1	5
1	6
1	7
1	8
1	9
2	0
2	1
2	2
2	3
2	4
2	5
2	6

As an alternative to Staff's proposal, the Applicant proposes to construct its towers with a separation that is at least as wide as the height of the existing towers.

10. Have you spoken with the owners of the two dairies located along Powerline Road?

Yes, the Applicant has had ongoing discussions with the dairy owners on numerous occasions.

11. What is their opinion of the Project?

One of the dairy owners favors Alternative One. In the event the Preferred Route is chosen, both dairies have requested that impacts be minimized. One possibility would be to have one or more road crossing(s) in the area of the dairies to allow the Gen-Tie to be on the opposite side of the road from each dairy.

12. Please describe the Arizona Game and Fish Department's concern about potential impacts to Bull Durham Wash associated with the reduced water use onsite.

The current use of the property results in tailwater runoff from the site into Bull Durham Wash. Tailwater is irrigation water that is not consumed by the crop or does not evaporate. The Arizona Game and Fish Department asked the Applicant to consider the potential impacts to Bull Durham Wash resulting from the reduction in excess irrigation flows to the wash.

13. What impact will reduced onsite water use have on Bull Durham Wash?

Reduced onsite water use will have limited affect because tailwater runoff from the site is just one of several sources that supply water to the head of the Bull Durham Wash at the northern boundary of the Solana Generating Station property. Other sources of water will be unaffected. These other sources include:

- Paloma Irrigation and Drainage District irrigation water supply deliveries through the local canal system to retention ponds and pumps within the Bull Durham Wash.
- Paloma Irrigation and Drainage District operational spills. The northern boundary
 of the Solana Generating Station property is located at the end of the local canal
 system, or "at the end of the ditch." Operational spills of irrigation supply water
 are common at the end of a canal system.
- Tailwater run-off from agricultural land located to the east of the property and agricultural land located to the north of the property.
- Stormwater drainage.

As a result, while the conversion of the site from agriculture to the Solana Generating Station would result in a reduction of tailwater run-off from the Solana Generating Station property, this water source represents a small amount of the cumulative water supply to the Bull Durham Wash and significant impacts are not anticipated.

14. What stormwater detention facilities will Maricopa County require the Applicant to construct and operate?

As part of the Special Use Permit process, Maricopa County will require the Applicant to construct and operate stormwater detention ponds on the property as well as drainage conveyance channels for offsite stormwater flows. The onsite detention ponds will be designed to capture temporarily the estimated 100-year, 2-hour storm run-off from the Solana Generating Station property. It is anticipated that flow will be detained near the northern limits of the property and discharge to the historic outfall location (Bull Durham Wash) at a flow volume equal to existing condition flows. Drainage will be managed in accordance with Drainage Regulations for Maricopa County.

15. Through what process will these requirements be imposed?

Detailed drainage facility designs will be described in the Maricopa County Special Use Permit application process; onsite drainage will be managed in accordance with Drainage Regulations for Maricopa County.

16. What impacts to Bull Durham Wash will result from the construction and operation of stormwater detention facilities?

The Applicant plans to manage onsite stormwater by utilizing temporary detention ponds and performing controlled releases of stormwater to manage the flow rate into the Bull Durham Wash. The management of stormwater flow rates would help protect the Bull Durham Wash by preventing an aggressive flow rate following periods of heavy rain.

In addition, historical stormwater discharge locations will be restored. Offsite stormwater run-off is generated from rainfall on topography located on Bureau of Land Management land to the west of the Solana Generating Station property. Currently, flows from the watershed west of the property are directed north by a man-made berm on the west side of the property and discharge approximately one mile north of the property. All flows from offsite watersheds surrounding the Solana Generating Station property will be conveyed to their historic locations per Maricopa County design standards.

Similar to onsite drainage, the Applicant plans to manage offsite stormwater by utilizing onsite temporary detention ponds and performing controlled releases of stormwater to protect the Bull Durham Wash by preventing an aggressive flow rate following periods of heavy rain.

By managing both onsite and offsite stormwater, the Applicant will effectively restore historical flows to the Bull Durham Wash and provide flood mitigation by preventing aggressive flow rates following periods of heavy rain.